GUTHRIE Robert Packer Hospital

RECEIVED REGION 1

February 14, 2002

2002 FEB 21 PM 3: 34

NMSBI

Ms. Tara Weidner United States Nuclear Regulatory Commission Region 1 475 Allendale Rd. King of Prussia, PA 19406-1415

030-03013

Re: Amendment of Materials License 37-01893-01

Dear Ms. Weidner:

This letter is to request an amendment to our above referenced materials license. We have recently added several radiologists to our medical staff and request the following changes:

- Addition of Jerome Brustein, MD as an authorized user of licensed materials.
- Addition of Harry Cooperman, MD as an authorized user of licensed materials.
- Addition of Ajay Viswambharan, MD as an authorized user of licensed materials.
- Addtion to license for Lanny Chuang, DO, as an authorized user of Iodine 131 for the treatment of hyperthyroidism and cardiac dysfunction.
- Addition of Thomas Padikal, PhD as Medical Physicist.
- Delete Robert Buchanan, M.S. as Medical Physicist.
- Delete Mei-Chang Cheng from our license.

I have attached copies of a materials license for Lanny Chuang, DO demonstrating previous privileges for Iodine 131 use. Additionally, I have attached copies of Board Certificates for Harry Cooperman, MD, Jerome Brustein, MD, and Ajay Viswambharan, MD. I have also attached a C.V. for Thomas Padikal, PhD.

Please note that Dr. Mei-Chang Cheng has not been practicing at our organization since January 21, 2002. Since that time, our radiation therapy practice has been limited to external beam radiation treatments under the supervision of a locum tenens physician. We are currently recruiting to fill our radiation oncologist position and will request an amendment to our license for HDR brachtherapy and seed implants when this position is filled.

All proposed changes to our license have been reviewed by our Radiation Safety Committee. If you have any questions or comments, please do not hesitate to contact me directly at 570-882-5197.

Sincerely,

Jeff B. McBee

Administrative Director

Aff B. Mr Bee

Guthrie Square

Sayre, Pennsylvania 18840

570-888-6666

Dr. Chung

NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

PAGE 1 OF 3 PAGES Amendment No. 13

MATERIAL STICENCE

source, and special nuclear material des deliver or transfer such material to person shall be deemed to contain the condition	se is hereby issued authorizing signated below; to use such range authorized to receive it in a	gy Reorganization Act of 1974 (Public Law 93-433), and Titl 6, 39, 40, and 70, and in reliance on statements and represents the licenses to receive, acquire, possess, and transfer in material for the purpose(s) and at the piace(s) designate in accordance with the regulations of the applicable Part(s). To of the Atomic Energy Act of 1954, as amended, and is su Commission now or hereafter in effect and to any condition	esentation byproduced below; t This licens
1. Clarion Hospital 2. 1 Hospital Drive Clarion, Pennsylvania 16214 6. Byproduct, source, and/or special nuclear material A. Any byproduct material Identified in 10 CFR 35.100 B. Any byproduct material identified in 10 CFR 35.200 C. Iodine 131	Any read and/or. Any read and/or. Any read on 10 35.700 Any read opher identified in 10 35.200 eddept	4. Expiration date July 31, 2002 5. Docket No. 030/12379 Reference No. 8. Maximum amount that licer / possess at any one time unlicense A. As needed OCFR I gas	nsee may
D Any byproduct material identified in 10 CFR 31.11 9. Authorized use: A. Any uptake, dilution and excreti. B. Any imaging and localization production in the provisions of the unit of the provisions of the unit of the provisions of the unit of	D. Prepackaged K	Kits D. As needed	

NRC FORM 374A U.S. NUCLEAR REGULATORY COMMISSION PAGES License Number 37-17215-01 MATERIALS LICENSE Docket of Reference Number SUPPLEMENTARY SHEET 030-12379 Amendment No. 13 CONDITIONS 10. Licensed material may be used only at the licensee's facilities located at 1 Hospital Drive, Clarien, 11. The Radiation Safety Officer for this license is James Puckett, D.O. 12. Licensed material listed in Item 6 above is only authorized for use by, or under the supervision of, the following Individuals for the materials and uses indicated: Authorized Users Material and Use James Puckett, D.O. 35,100; 35,200 in vitro studies Gary F. Haverty, D.O. 4 Lanny Chuang, D.O. ấtment of hyperthyroidism and cardiac In addition to the possession limits in item 8, the literases shall further restrict the possession of license material to quantities below the minimum limit of cated in 10 CFR 30.35(d), 40.36(b), and 70.25(d) for establishing financial assurance for decommissioning. sensee small further restrict the possession of licensed 14. In addition to the possession limits in item of the itemsed shall further restrict the possession of licensed material at a single location to quantities below the limits specified in 10 CFR 30.72 which require consideration of the need for an emergency plan for responding to a release of licensed material. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

PAGES PAGE U.S. NUCLEAR REGULATORY COMMISSION NRC FORM 374A License Number 37-17215-01 Docket or Reference Number MATERIALS LICENSE 030-12379 SUPPLEMENTARY SHEET Amendment No. 13

16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any anclosures, listed below, except for minor changes in the medical use radiation safety procedures as ad in 10 CFR 35...
Itements, representations, ...
restrictive than the regulations.

Application dated December 8, 1991
Letter dated June 23, 1992
Hon dated April 18, 1994
Hon dated April 18, 1998
Hon dated April 18, 1998 provided in 10 CFR 35.31. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. В.

C. D.

Æ. F.

For the U.S. Nuclear Regulatory Commission

July 21, 1999 Date

Neelan Bhalla By

Nuclear Materials Safety Branch 1 Division of Nuclear Materials Safety Region I King of Prussia, Pennsylvania 19406

95561556

American Board of Radiulago

American College of Radiology, the American Roentgen Ray Society, the American Radium Society, the Radiological Society of North America, the Section on Radiology of the American Medical Association, the American Society for Therapeutic Stadiology and Oncology, and the Association of University Stadiologists Onganized through the cooperation of the

Frome Marc Trustein, M.D.

Hereby certifies that

and clinical work, has met certain standards and qualifications and has passed the examinations conducted under the authority of Has pursued an accepted course of graduate study The American Board of Stadiology

On this eighth day of June, 1989

Thereby demonstrating to the satisfaction of the Doard that he is qualified to practice the specialty of

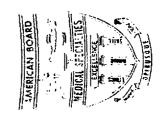
Piagnostic Radiology

IN THE DISTRICE

COLUMBIA

Lobert Glanni

John K. R. Zeelder Defter D



The American Board of Radiology
Organized through the cooperation of the Organized through the cooperation of the American College of Radiology, the American Roentgen Ray Society, the American Radium Society, the Radiological Society of North America, the Section on Radiology of the American Medical Association, the American Society for Therapeutic Radiology and Oncology, the Association of University Radiologists, and American Association of Physicists in Medicine

Ajay Viswambharan, MD

Hereby certifies that

Has pursued an accepted course of graduate study and clinical work, has met certain standards and qualifications and has passed the examinations conducted under the authority of The American Board of Radiology On this sixth day of November, 2000

Thereby demonstrating to the satisfaction of the Board that he is qualified to practice the specialty of

Diagnostic Radiology

with Added Qualifications in

Neuroradiology

Storm a Sichl, M.D. Executive Brettor, M.D. Secretary- Brenner

Certificate No. 41794

Walid through 2010

the Smellan Reduin Lhordy the Prairiegical Londy of Worth Samoura. איניסיונים בריינים של המינים אין איניים אין איניים איניים של דוניים של איניים yeulinital In hundle na virgin faile

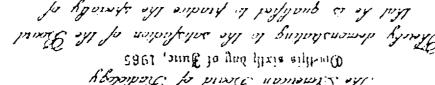
Harry Alan Caoperman, M.B.

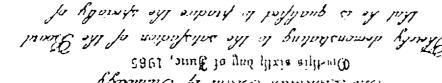
אלי האיסום בע לוסהרוחרות אן הן אלי האיחיסוניסט האאחרוער באימיסססעריסט סחל אלי באיחיסנינונו רידוילץ בא לאינוחאיסטאים לחלנסריסיימאי האייאץ בטאיאים אאחל

The present on octher course of graduals study

The Lementon Brand of Redickyy Las passed the encommodians conducted under the authority of סמק דרומונסן מסוצ ציוש מווק ניתוונו שנונונוצון סעון לווסני ציוש שעק

Thereby demonstrating to the satisferdion of the Board Call, and do ynd flxie eigh-1985





Magnetic Andiology







Thomas N. Padikal, Ph.D.

Diplomate, American Board of Radiology



OBJECTIVE

To work as a Medical Physicist with a focus in Radiation Oncology

AREAS OF EXPERTISE

Experimental Physics: Electron Linear Accelerators (up to 25 MeV and 2,000 cGy per minute), 50 MeV Cyclotron, 22 Mev Microtron, Radiation Transport, 3-D Beam Characterization, Interaction of Radiation with Matter, Radiation Dosimetry, Nuclear Magnetic Resonance (up to 1.5 Tesla), NMR Imaging, X-ray imaging including flouro and Computed Tomography, Propagation (near and far field) of Ultrasound, Hyperthermia and Propagation of Microwaves in Tissues, Radiation Safety, Laser Safety, Radiation shielding, Nuclear Physics as applied to radioactivity, Safe handling of radioactive substances of up to several kilo-Curies, Teaching & training, Mossbauer Effect, Quantum Optics, Fourier Optics, gamma imaging.

Radiation Oncology: IMRT (Intensity Modulated Radiation Therapy), HDR (High Dose Rate Brachytherapy) for prostate, breast and other tumors, Prostate Seed Implants, 3D and 2D Treatment Planning, PDT (Photodynamic Therapy), Clinical Physics, Dosimetry, Commissioning, Calibrations and Brachytherapy (HDR & LDR).

Diagnostic Radiology: Computed Tomography, Magnetic Resonance Imaging, Patient Dosimetry,

Nuclear Medicine: Radio-nuclide imaging, in-vivo dosimetry, gamma cameras, spect imaging.

Regulatory: Considered an *expert* by the Nuclear Regulatory Commission and by many States.

EXPERIENCE

Physics: Over twenty years of experience with linacs, klystrons, magnetrons, high voltage devices, gamma cameras, radiation detectors, radiation transport, interaction of radiation with matter, radiation oncology, diagnostic radiology, NMR, radiation biology, computer simulation of radiation transport in uniform and non-uniform media Clinical: HDR Prostates: Over 120 cases; HDR Breast: Over 20; LDR Prostate Seed Implants: Over 100; LDR Gynecological cases: Over 2,000; IMRT Cases: Over 25; 3D Treatment Planning: Over 2,000; PDT: Over 20 Teaching: Extensive teaching experience in Medical Imaging (CT, MRI, Ultrasound, Radiography & Nuclear Cardiology) Introductory College Physics (e.g. Resnick & Halliday) Radiation Dosimetry / Radiation Transport, Radiation Safety.

CERTIFICATION

Certified by *The American Board of Radiology* in Radiation Therapy, Diagnostic Radiology and Nuclear Medicine, 1977.

EDUCATION

Residency	Medical Physics	1975	University of Cincinnati General Hospital
Ph.D.	Physics (Quantum Optics)	1975	University of Cincinnati
M.S.	Physics (High Energy Physics)	1973	University of Cincinnati
M.S.	Physics (Nuclear Physics)	1971	Cleveland State University
M.S.	Electronics	1969	Kerala University
B.S.	Physics, Chemistry, Mathematics	1967	Kerala University

POSITIONS HELD

Consulting Medical Physicist

1999 - present

Bensalem, Pennsylvania

Medical Physicist

1995 - 1999

Memorial Medical Center & Cancer Institute, Tulsa, Oklahoma

PERSONAL INFORMATION WAS REMOVED BY NRC. NO COPY OF THIS INFORMATION WAS RETAINED BY THE NRC.

Director of Physics & COO

1981 - 1995

Applied Physics Services, Inc., Williamsport, Pennsylvania

Senior Physicist

1978 - 1981

National Cancer Institute, National Institutes of Health, Bethesda, Maryland

Assistant Professor of Radiology

1975 - 1978

The George Washington University Medical Center, Washington, D.C.

PUBLICATIONS

A. BOOKS AND CHAPTERS

- A Physicist's Desk Reference (1989). American Institute of Physics. Medical Physics section.
- Medical Physics Data Book (1982). Published by the American Association of Physicists in Medicine as the National Bureau of Standards Handbook 138.
- Physics Vade Me Cum (1983) H.L.Anderson (Chief Editor), Thomas N. Padikal (Editor, Medical Physics). Published by the American Institute of Physics on its fiftieth anniversary.
- Treatment Planning in Primary Breast Cancer (Radiation Therapy Planning, N. Bleehen, Editor, Dekker, 1983)
- The Role of Computed Tomography in Treatment Planning (Radiation Therapy Planning, ibid)

B. PUBLISHED JOURNAL ARTICLES

- Experience with a CT Based Treatment Planning System (Proceedings of the Fourth Annual Symposium on Computer Applications in Medical Care, Nov. 1980, Washington, D.C.)
- Electron Contamination of a High Energy X-ray Beam (Physics in Medicine and Biology, Nov. 1978)
- Determination of the Size Distribution of Human Albumin Microspheres by the Forward Scattering of Monochromatic Light (Medical Physics, Jan 1976)
- Computational Inaccuracy of Irregular Field Dosimetry (Medical Physics, Feb 1978)
- Field Uniformity Correction Benefits or Pitfalls? (Journal of Nuclear Medicine, July 1976)
- The Need for Treatment Planning Program Verification (Proceedings of the Second Annual Symposium on Computer Applications in Medical Care, 1978)
- A System for Electron Therapy Dosimetry Surveys with Thermoluminiscence Dosimeters (Int J Appl Rad, Vol.33)
- Stability of Teletherapy Beam Symmetry with Gantry Angle (Radiology, May 1981)
- Dose to Lung in Primary Breast Irradiation (Int J Rad Onc Biol Phys, Vol 9, 1983)
- Quantitative Assessment of Field Uniformity for Gamma Cameras (Radiology, Jan. 1976)
- Experience with a Pair of Matched Silicone Diodes for Constancy Checks on Teletherapy Equipment (Radiology, Nov. 1978)
- Utilization of the Computerized Tomography Scanner in Interstitial Dosimetry (Radiology, June 1980)
- The Importance of Correct Photopeak Setting in Nuclear Medicine Imaging Procedures (J Nuclear Medicine Technology, Sept 78)
- The time course of radioprotection by WR 2721 in mouse skin. (Int J Radiat Oncol Biol Phys, 1982)
- A Shared Facility in a Medical Research Institution (J Medical Systems, Vol.2, No.3, 1978)
- Localization in Interstitial Dosimetry Utilizing the CT Scanner (J of Computed Tomography, Vol 3, 1979)
- Liver Size Determination in Pediatrics Using Sonographic and Scintigraphic Techniques (Radiology, Nov. 1975)
- QA in a Mobile CT Operation (Medical Imaging, May 1983)
- The Design and Fabrication of an Automated Real Time Patient Position and Dose Monitoring System (Proceedings of the Fifth International Conference on Medical Physics, Jerusalem, Aug 1979)
- Experience with a Mobile CT Scanner (Proceedings of the World Congress on Medical Physics, Hamburg, 1982)
- On the Use of Transmitted and Scattered Radiation for Monitoring Patient Position and Dose Constancy (Proceedings of the Fifth International Conference on Medical Physics, Jerusalem, Aug. 1979)
- Quality Assurance of Mobile CT scanners (Applied Radiology, Feb 1987)
- A technique for field matching in primary breast irradiation (Int. J. Radiation Oncology, Biol. Phys., Feb 1983)
- An analysis of some dosimetric uncertainties in radiation therapy (Medical Dosimetry, Vol 13, 1988)
- Acceptance Testing of Medical Imaging Equipment: CT and MRI (Applied Radiology, Nov 1991)
- The Role of Computed Tomography in Treatment Planning, Radiation Therapy Planning (N. Bleehen, Editor, Dekker, 1983)

• Treatment Planning in Primary Breast Cancer, Radiation Therapy Planning (N. Bleehen, ibid)

C. PUBLISHED ABSTRACTS

- Physical Aspects of Total Skin Electron Irradiation with a Mevatron XII (Medical Physics, Vol 7, July 1980)
- Characterization of the AFRRI Electron Beam for Intraoperative Radiobiology Research (Int J Rad Onc, Vol.5, 1979)
- Tolerance of Canine Anastamoses and Retroperitoneal Structures to Intraoperative Radiation Therapy (Int. J Rad Onc Bio Phys, Vol. 6, 1980)
- Treatment Planning in Breast Irradiation: The Influence of Technique on Lung Dose and Dose to Opposite Breast (Int. J Rad Onc Bio Phys, Vol. 6, 1980)
- Effect of Patient Specific Physical Measurements on Absorbed Dose (Int. J Rad Onc Bio Phys, Vol. 4, 1978)
- The Use of Computerized Tomography in Interstitial Dosimetry (Int. J Rad Onc Bio Phys, Vol. 4, 1978)

PROFESSIONAL SOCIETIES

- 1. American Association of Physicists in Medicine
- 2. American College of Medical Physics
- 3. American College of Radiology
- 4. American Physical Society
- 5. American Society of Therapeutic Radiology and Oncology

COMMITTEE ACTIVITIES

- 1. MRI Site Accreditation Reviewer, American College of Radiology 1998 -
- 2. Professional Information and Clinical Relations Committee, AAPM, 1986-88
- 3. Radiation Therapy Committee, Science Council, AAPM, 1979-1983
- 4. Training of Radiologists Committee, Educational Council, AAPM, 1979-1983
- 5. Member, Project Advisory Group, Bureau of Radiological Health, HEW, 1977-78
- 6. Physics Liaison, CALGB, 1976-77
- 7. Contributor of questions to ABR examinations 1977- 1993
- 8. Reviewer, Medical Physics, 1978-1993
- 9. Rules Committee, AAPM, 1986-1988

SEMINARS AND SHORT COURSES

Faculty, Nuclear Magnetic Resonance Imaging, 1986 - 1996

Faculty, Nuclear Cardiology, 1980 - 1990

Faculty, Computed Tomography Workshop, 1982 - 1996

Numerous other Faculty Assignments for Continuing Education Courses

MISCELLANEOUS

- Trained over 20 Radiology Residents gain certification by American Board of Radiology
- Trained over 5 Physicists in Medical Physics
- Trained & secured NRC license for over 500 Cardiologists in Nuclear Cardiology
- Trained & secured Board certificates for over 500 CT Technologists
- Trained & secured Board certificates for over 100 MRI Technologists
- Advanced Open Water SCUBA diver, certified by PADI
- Instrument Rated Private Pilot, licensed by the FAA
- Volunteer Pilot, Angel Flight (Fly children and adults to distant hospitals for treatment, gratis)
- Long Distance Biking, Alpine Skiing, Sailing, Ethnic Cooking, Multi-day backpacking & Hiking

This is to acknowledge the	receipt of your letter/application dated
includes an administrative	, and to inform you that the initial processing which review has been performed.
There were no administ technical reviewer. Plea omissions or require ad	3 7-6/893 - CV rative omissions. Your application was assigned to a asse note that the technical review may identify additional ditional information.
Please provide to this o	ffice within 30 days of your receipt of this card
Branch, who will contact your action has been assign	peen forwarded to our License Fee & Accounts Receivable ou separately if there is a fee issue involved. I 3 1 0 7 3 out this action, please refer to this control number.
NRC FORM 532 (RI) (6-96)	Sincerely, Licensing Assistance Team Leader

•

	: (FOR LFMS USE) : INFORMATION FROM LTS
BETWEEN:	:
License Fee Management Branch, ARM and Regional Licensing Sections	: Program Code: 02230 : Status Code: 0 : Fee Category: 7C_3M : Exp. Date: 20110930 : Fee Comments: CODE 23 : Decom Fin Assur Reqd: N
LICENSE FEE TRANSMITTAL	
A. REGION	
1. APPLICATION ATTACHED Applicant/Licensee: GUTHRIE HEALTE Received Date: 20020221 Docket No: 3003013 Control No.: 131073 License No.: 37-01893-01 Action Type: Amendment	ICARE SYSTEM &
2. FEE ATTACHED Amount: Check No.:	
3. COMMENTS	
Signed _ Date _ B. LICENSE FEE MANAGEMENT BRANCH (Check	M. a. Perkins When milestone 03 is entered / /)
1. Fee Category and Amount:	when milescone os is entered /_//
2. Correct Fee Paid. Application may Amendment Renewal License	be processed for:
3. OTHER	
Signed Date	